

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY
 (Includes Reference to PCT International Applications)

 ATTORNEY'S DOCKET NUMBER
 LUD 5298

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ACTIVIN RECEPTOR-LIKE KINASES, PROTEINS HAVING SERINE
THREONINE KINASE DOMAINS AND THEIR USE

the specification of which (check only one item below):

 is attached hereto.

 was filed as United States application

 Serial No. 08/436,265

 on May 16, 1995

and was amended

on _____ (if applicable).

 was filed as PCT international application

 Number PCT/GB93/02367

 on November 17, 1993

and was amended under PCT Article 19

on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (in PCT or certificate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
GB	9224057.1	17 November 1992	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9304677.9	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9304680.3	8 March 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9311047.6	28 May 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9313763.6	2 July 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PCT/GB93/02367 (Rev. 10-83)		Page 1 of 2	
GB	9136099.2	3 August 1993	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Off. <input checked="" type="checkbox"/> Yes
GB	9321344.5	15 October 1993	January 1991 <input checked="" type="checkbox"/> Yes

Combined Declaration For Patent Application and Power of Attorney (Continued) (Includes Reference to PCT International Applications)		ATTORNEY'S DOCKET NUMBER TUD 5298
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)		
PCT/GB93/02367	Nov. 17, 1993			

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. [List name and registration number] Peter F. Felfe (20,297); John E. Lynch (20,940); Alfred H. Hemingway, Jr. (26,736); Vincent M. Fazzari (26,879); Norman D. Hanson (30,946); F. Brice Faller (29,532); Andrew L. Tiajoloff

* Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894).
***FELFE & LYNCH**
805 Third Avenue, New York, New York 10022 Direct Telephone Calls to:

(212) 688-9200

201	FULL NAME OF INVENTOR	FAMILY NAME Miyazono	FIRST GIVEN NAME Kohei	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden
202	POST OFFICE ADDRESS	POST OFFICE ADDRESS Flogstavagen 63D, S-	CITY 752 63, Uppsala	STATE & ZIP CODE/COUNTRY Sweden
	FULL NAME OF INVENTOR	FAMILY NAME ten Dijke	FIRST GIVEN NAME Peter	SECOND GIVEN NAME
203	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Flogstavagen 25C, S-	CITY 752 63, Uppsala	STATE & ZIP CODE/COUNTRY Sweden
204	FULL NAME OF INVENTOR	FAMILY NAME Franzen	FIRST GIVEN NAME Petra	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden
POST OFFICE ADDRESS	POST OFFICE ADDRESS Lindsbergsgatan 15b	CITY S-752 40, Uppsala	STATE & ZIP CODE/COUNTRY Sweden	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 101 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
<i>[Signature]</i>	<i>[Signature]</i>	<i>Petra Franzen</i>
DATE —	DATE October 16, 1995	DATE October 16, 1995

US

Combined Declaration For Patent Application and Power of Attorney (Continued)
(Includes Reference to PCT International Applications)ATTORNEY'S DOCKET NUMBER
LUD 5298

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED

PCT APPLICATIONS DESIGNATING THE U.S.

PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)	
PCT/GB93/02367	Nov. 17, 1993		X

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201	FULL NAME OF INVENTOR	FAMILY NAME Yamashita	FIRST GIVEN NAME Hidetoshi	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Flogstavagen 33A, S-752 63, Uppsala	CITY S-752 63, Uppsala	STATE & ZIP CODE/COUNTRY Sweden
202	FULL NAME OF INVENTOR	FAMILY NAME Heldin	FIRST GIVEN NAME Carl-Henrik	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Hesselmans vaq 35	CITY S-752 63, Uppsala	STATE & ZIP CODE/COUNTRY Sweden
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY

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SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE October 16, 1993	DATE

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 (Includes Reference to PCT International Applications)

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GB	9136099.2	3 August 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
GB	9321344.5	15 October 1993	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

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U.S. APPLICATIONS		STATUS (Check one)	
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED PENDING ABANDONED	
PCT APPLICATIONS DESIGNATING THE U.S.			
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED BY USPTO	
PCT/GB93/02367	Nov. 17, 1993		
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* Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894). *FELFE & LYNCH 805 Third Avenue, New York, New York 10022		Direct Telephone Calls to: (name and telephone number) (212) 688-9200	
201	FAMILY NAME Miyazono	FIRST GIVEN NAME Kohei	SECOND GIVEN NAME
	RESIDENCE & COUNTRY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden
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	RESIDENCE & COUNTRY Uppsala	STATE OR FOREIGN COUNTRY Sweden	COUNTRY OF CITIZENSHIP Sweden
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SIGNATURE OF INVENTOR 201 <i>John Miyazono</i>	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203	
DATE Oct. 16, 1995	DATE		

Combined Declaration For Patent Application and Power of Attorney (Continued)
 (Includes Reference to PCT International Applications)
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PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED IN U.S.		
PCT/GB93/02367	NOV. 17, 1993	X		

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*Send Correspondence to: (31,575); John A. Bauer (32,554);
and Patricia A. Pasqualini (34,894).

Direct Telephone Calls to:
(Name and telephone number)

*FELFE & LYNCH
805 Third Avenue, New York, New York 10022

(212) 688-9200

201	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	Flogstavagen 33A, S	752 63, Uppsala	STATE & ZIP CODE/COUNTRY Sweden
202	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	Hesselmans vag 35	S-752 63, Uppsala	STATE & ZIP CODE/COUNTRY Sweden
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS		CITY	STATE & ZIP CODE/COUNTRY

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SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
Hidetoshi Yamashita		
DATE	DATE	DATE
Oct. 16, 1995		



UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 20, 1996

PTAS

FELFE & LYNCH
PATRICIA A. PASQUALINI, ESQ.
805 THIRD AVENUE
NEW YORK, NY 10022



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100185517A*

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/18/1995

REEL/FRAME: 7914/0131

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MIYAZONO, KOHEI

DOC DATE: 05/24/1995

ASSIGNOR:

DIJKE, PETER TEN

DOC DATE: 05/24/1995

ASSIGNOR:

FRANZEN, PETRA

DOC DATE: 05/24/1995

ASSIGNOR:

YAMASHITA, HIDETOSHI

DOC DATE: 05/24/1995

ASSIGNOR:

HELDIN, CARL-HENRIK

DOC DATE: 05/24/1995

ASSIGNEE:

LUDWIG INSTITUTE FOR CANCER RESEARCH
1345 AVENUE OF THE AMERICAS
NEW YORK, NEW YORK 10105

7914/0131 PAGE 2

SERIAL NUMBER: 08436265
PATENT NUMBER:

FILING DATE: 10/30/1995
ISSUE DATE:

ANNIE HARRELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

18 JUL 1995

RECORD FORM COVER SHEET

05-03-1996

OMB No. 0651-0011 (exp. 4/94)

U.S. Department of
Patent and Trademark Office

To the Honorable Commissioner of Patents and



100185517

Original documents or copy thereof.

1. Name of conveying party(ies):

Kohei Miyazono
Peter ten Dijke
Petra Franzen
Hidetoshi Yamashita
Carl-Henrik Heldin

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: May 24, 1995

2. Name and address of receiving party(ies)

Name: Ludwig Institute for Cancer Research

Internal Address: _____

Street Address: 1345 Avenue of the Americas

City: New York State: NY Zip: 10105

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

08/436,265

B. Patent No.(s)

75888 U.S. PTO



05/01/96

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patricia A. Pasqualini, Esq.

Internal Address: FELFE & LYNCH

Street Address: 805 Third Avenue

City: New York State: NY Zip: 10022

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

06-0530

(Attach duplicate of this page if paying by deposit acct.)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patricia A. Pasqualini
Name of Person Signing

Signature

July 14, 1995

Date

Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

Whereas the undersigned [hereinafter (collectively) "**ASSIGNOR**"] have invented certain new and useful improvements in ACTIVIN RECEPTOR-LIKE KINASES, PROTEINS HAVING SERINE THREONINE KINASE DOMAINS AND THEIR USE for which an application for United States Letters Patent was executed concurrently herewith.

Whereas **Ludwig Institute for Cancer Research**
1345 Avenue of the Americas
New York, New York 10105

a Swiss, not-for-profit corporation (hereinafter "**ASSIGNEE**") is desirous of acquiring the entire right, title and interest in the same:

Now, therefore, in consideration of the sum of one dollar (\$1.00), the receipt whereof is hereby acknowledged, and other good and valuable consideration, the said **ASSIGNOR** hereby sells, assigns and transfers unto said **ASSIGNEE**, the full and exclusive right to the said invention in the United States and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States.

Said **ASSIGNOR** hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said **ASSIGNEE**, as the assignee of the entire right, title, and interest in and to the same, for the sole use and for the use of its successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by said **ASSIGNOR** had this assignment and sale not been made.

Witness, the hand and seal of the **ASSIGNOR** on the date(s) indicated.

Date(s)

Signature(s)

May 24, 1995Kohji Miyazono

Kohji Miyazono

May 24, 1995Peter ten Dijke

Peter ten Dijke

May 24, 1995Petra Franzen

Petra Franzen

May 29, 1995Hidetoshi Yamashita

Hidetoshi Yamashita

May 29, 1995Carl-Henrik Heldin

Carl-Henrik Heldin

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805 Third Avenue
New York, N.Y. 10022
Tel. No. 212-688-9200